

NAT II Physical Science Analytical

Sr	Questions	Answers Choice
1	Selfishness is a principal evil in our society. Every person is concerned with only himself. Personal advancement is the only motivating force in the world today. This does not mean that individuals are not willing to help one another, on the contrary,	A. We are always trying to undermine other endeavors. B. People always deceive one anther. C. Even close friends are not trustworthy. D. People want power to control others E. There are many occasions when we graciously offer our assistance.
2	In a factory control room, there are three ON-OFF switches on the central control panel, labeled A, B and C. They are changed from default setting to a required setting based on the following rules: In case only switch A is ON in the default setting, then turn switch B ON. In case switches A and B are the only switches ON in the default setting, then turn switch C ON. In case all the three switches are ON, in default setting, then turn the switch C OFF. For any other default setting, turn ON all switches that are OFF and turn OFF all switches, if any, that are ON. Q: In case only switches B is ON in the default setting, what must be the second setting?	A. A ON, B ON, C ON, B. A ON, B ON, C OFF, C. A ON, B OFF, C ON, D. A OFF, B OFF, C ON, E. A OFF, B OFF, C OFF,
3	Three men (Tahir, Pervaiz and Javed) and three women (Elena, Ayesha and Kiran) are spending a few months at Abbottabad. They are to stay in a row of nine cottages, each on living in his or her own cottage. There are no others staying in the same row of cottages. 1. Ayesha, Tahir and Javed do not want to stay in any cottage, which is at the end of the row. 2. Elena and Ayesha ar unwilling to stay besides my occupied cottage. 3. Kiran is next to Pervaiz and Javed. 4. Between Ayesha and Javed's cottage there is just one vacant house. 5. None of the girls occupies adjacent cottages. 6. The house occupied by Tahir is next to an end cottage. Q: Which of the above statements can be said to have been derived from two other statement?	A. Statement 1 B. Statement 2 C. Statement 3 D. Statement 5 E. Statement 6
4	In a factory control room, there are three ON-OFF switches on the central control panel, labeled A, B and C. They are changed from default setting to a required setting based on the following rules: In case only switch A is ON in the default setting, then turn switch B ON. In case switches A and B are the only switches ON in the default setting, then turn switch C ON. In case all the three switches are ON, in default setting, then turn the switch C OFF. For any other default setting, turn ON all switches that are OFF and turn OFF all switches, if any, that are ON. Q: Which of the following default settings leads to a second setting, where only one switch is OFF?	A. A ON, B ON, C OFF. B. A ON, B OFF, C ON. C. A OFF, B ON, C ON. D. A OFF, B ON, C OFF. E. A OFF, B OFF, C OFF.

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Q: Many people do not read the books they purchase. For example, seventeen percent of college students in Pakistan have text books, but only forty-five percent of them read more than once a year, and only seventeen percent read more than once a week. Which of the following, if true, casts doubt on the claim that most people read the books they purchase?

A. Regular book readers are most susceptible to eye diseases.

B. Readers often exaggerate about their book reading.

C. Many people buy books to pretend to be a scholar.

frequent reading.

D. The sale of novels is more than that of other types E. Reading speed is increased by

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Q: In case, only switch B is ON in the second setting. Which of the following could have been the default setting?

A. A ON, B ON, C ON. B A ON B OFF C O C. A OFF, B ON, C OFF. D. A OFF, B OFF, C ON.

E. A OFF, B OFF, C OFF.

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Q: Many people especially the experts in the field of forestry are against all forest fires. They demand that all forest fires show that in the long run, forest fires may in fact, be beneficial to the ecology as a whole. Among the following, which statement would logically follow from one of the observations referred to in the passage above?

A. The reason of almost all forest fires is natural.

B. Human beings try to extinguish the fire for gaining heat.

C. Studies indicate that forest fires regularly occurred in the times prior to human occupation of forest areas.

D. The animal and plant life destroyed by forest fires seldom represents endangered species.

E. Occasionally, the small fire prevents a large scale fire by the accumulation of flammable materials.

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Q: Muzzaffar is terrible driver. He had ten traffic violations in the past year. Which of the following can be said about the above claim?'

A. Muzzaffar does not know how to drive

B. Muzzaffar is an addict of drugs C. It is obvious that everyone has accidents in bad weather.

D. Some thing, in this argument is

E. The given statement is wrong.

At IOWA University, Students of Economics must complete a total to twelve courses selected from three different parts of the syllabus Comparative economics, environmental economics, and regional economics... in order to graduate, the students must meet the following course distribution requirements:

(i) At least six of the required twelve course must be from the environmental economics.

B. 3 C. 5

(ii) At least five of the required twelve courses must be from comparative economics and regional economics, with at least one, but no more than three, selected from comparative economics.

Q: The minimum number of regional economics courses required to fulfil the course distribution requirements is

Four captains and the first mates of three of them were called to attend the annual meeting at head quarter. The captains were Luqman, Manzoor, Nauman and Osaf; the first mates were Ayesha, Durya and Gia. Each person in turn delivered a report to the chairperson as follows:

Each of the first mates delivered their report exactly after her captain. The first captain to speak was Manzoor, and captain Nauman spoke after him.

(Represent the person with first letter of his name)

A. A spoke sometime before L.

B. D spoke sometime before O. C. L spoke sometime before O.

D. O spoke sometimes before L.

E. O spoke sometime before N.

Q: In case A is the third of the first mates to speak, and L is the captain whose first mate is nor present, which among the following statements must be true?

Multan Institute of Higher Studies plans to show five educational films A, B, C, D and E to a group of students. The film shows are planned in an order, which conforms to the following conditions:

A must be shown earlier than C. 11

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B must be shown earlier than D.

E should be the fifth film shown.

Q: Which among the following is an acceptable order for showing the educational films?

Six candidates Ali, Amin, Omer, Hamza, Saleem and Osama are being interviewed for a job. The interview will take place over four consecutive days, starting on Thursday, Each candidate will have only one interview. The day on which the different candidates will interview must confirm to the following conditions:

(i) At least one interview will take place each day

(ii) No more than two interviews will take place on any day

(iii) No more than three interviews will take place on any two consecutive days

(iv) Ali's interview must take place on Saturday.

(v) Amin's interview must place on the same with another interview.

(vi) Saleem's interview must take place on the day before Osama's interview

(vii) Omer's interview must take place on a day after Hamza's interview.

Q: If the director decides to take two interviews on Thursday and two on Sunday, how many candidates would be eligible to interview on Friday?

Three men (Tahir, Pervaiz and Javed) and three women (Elena, Ayesha and Kiran) are spending a few months at Abbottabad. They are to stay in a row of nine cottages, each on living in his or her own cottage. There are no others staying in the same row of cottages.

- 1. Ayesha, Tahir and Javed do not want to stay in any cottage, which is at the end of
- 2. Elena and Ayesha ar unwilling to stay besides my occupied cottage.
- 3. Kiran is next to Pervaiz and Javed.
- 4. Between Ayesha and Javed's cottage there is just one vacant house.
 - 5. None of the girls occupies adjacent cottages.
 - 6. The house occupied by Tahir is next to an end cottage.
 - Q: Which among these statement(s) are true?
 - a. Ayesha is between Elena and Javed.
 - b. At the most four persons can have ocupied cottages on either side of them.
 - c. Tahir stays besides Pervaiz

Follow us to the real Pakistan leaving behind the disturbances of civilization. Real Pakistan is still inhabited by the eagle, the cow, the black deer, and tigers; it is still spacious, sprawling, and majestic. Experience the freedom and serenity still to be found in

Q: Everything that the king knows necessarily is, because even what we ourselves know necessarily is; and, of course, our knowledge is not as certain as Kng's knowledge is. However, no future contingent thing necessarily is. Among the following statements, which naturally follows from the above:

A. There are no future contingent

B. It is not true that the king has knowledge of only necessary things. C. The king has knowledge of no contingent future things

D. It is not possible for us to know the king.

E. The king has knowledge of everything.

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Everything that a person does, which is dictated because of ignorance is not voluntary. Involuntary actions are those, which produce pain and repentance. In case a man has done something in his ignorance and he dose not feel vexed due to his action, he has not acted voluntarily as he was not aware of what he was doing, not yet involuntarily since he is not

A. A person is not a voluntary agent, if he acts by reason of ignorance and

B. If an action is done by reason of ignorance and is bot voluntary, then it was repented. C. a man is an involuntary agent, if

he acts by reason of ignorance. D. Some actions are either involuntary or not voluntary.

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B. 2 C. 3

B. A, C, D, E, B

C. B, D, C, A, E D. B, D, E, A, C

E. E, B, C, A, D

A. I only

D. II and III only

E. I, II and III

B. II only I and III only

E. If a man is not voluntary agent, he acted because of ignorance and repents.

A. P and Q B. P and X

C. X and Y D. X and Z

A. Lonly

B. II only

C. III only

D. I and Ill only

E. I, II and III only

A railway track from Lahore to Islamabad consists of six main stations, P, Q, R, X, Y, and Z. Trains run only according to the following condition:

- (i) Frm P to Q
- (ii) From Q to P and from Q to R
- (iii) From R to X
- 16 (iv) From X to Q and from X to Y
 - (v) From Z to P, from Z to Y and from Z to R
 - (vi) From Y to X
 - (vii) It is possible to transfer a station for another train.
 - Q. The complete and accurate listing of the stations from which it is possible to reach R with exactly one transfer is:

One's ability to adjust in an environment successfully leads to happiness. War at a universal level destroys the weaker people, who are the most unable to adjust to their environment. Thus, war at the universal level puts weakling out of their misery and allows more space for their predators to enjoy life in a better manner. As those actions have to be performed, which maximize the level of happiness of the greatest number, war at a universal level should take place.

- 17 Q: The author's discussion would be greatly weakened, if he agreed to which of the following?
 - I- Technology could change the environment.
 - Il- War at the universal level would be an integral part of the environment.
 - III- It is possible for the strong to survive without suppressing the weak.
- A. Some of the elements in Salt X are extracted from the root of a certain poisonous herb of Hunza. B. The blood test of the victims of
 - Kay fever revealed the presence of a toxic element in their blood, normally found in salt X.
 - C. Almost all the white cats died within two days after the first symptom appeared. D. Normally the rate of Kay fever
 - among white cats is less than 0.01%. E. Within two weeks, about 40% of the white cats, who were injected with placebo, also contracted Kay fever.

In an in vitro study, 160 white cars were injected with Salt X. 160 other white cats injected with placebo. In two weeks, 39% of the white cats, who were injected with Salt X showed symptoms of Kay fever. Hence, it can be concluded that Kay fever is caused by some elements similar to the elements in Salt X.

Q: Which of the following would most strengthen the argument above?

Six candidates Ali, Amin, Omer, Hamza, Saleem and Osama are being interviewed for a job. The interview will take place over four consecutive days, starting on Thursday, Each candidate will have only one interview. The day on which the different candidates will interview must confirm to the following conditions:

- (i) At least one interview will take place each day
- (ii) No more than two interviews will take place on any day
- (iii) No more than three interviews will take place on any two consecutive days
- (iv) Ali's interview must take place on Saturday.
- (v) Amin's interview must place on the same with another interview.
- (vi) Saleem's interview must take place on the day before Osama's interview
- (vii) Omer's interview must take place on a day after Hamza's interview.
- Q: If only one interview takes place on Thursday which candidate could have that interview?

A. Ali

B. Amin

C. Omer D. Saleem

E. Osama

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Nine Individuals – Z, Y, X, W, V, U, T, S AND R are the only candidates, who can serve on three committees labeled A, B and C.

Each candidate should serve on exactly one of the committees.

Committee A should consist of exactly one member more than that of committee.

A. 9
B. 8
C. 7
It is possible that there are no members of committee C. Among Z, Y and X none can serve on committee A. Among W, V and U none can serve on committee C. Among
E. 5

Q: of the nine individuals, the largest number that can serve together on committee C is

T, S and R none can serve on committee C.

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